

**ABSTRACT**

The present invention relates to a receiver for a high speed transmission system and a method for receiving a signal on a receiving side of a transmission system wherein a first signal is transmitted over a transmission path. Said first signal comprises a plurality of data symbols which are successively transmitted, in front of each being a first prefix for avoiding an interference between said successively transmitted data symbols. The receiver according to the present invention comprises a filter having a pass characteristic such that said first signal can pass, a buffer for buffering said first signal, means for generating a second prefix for each first prefix in front of each of said plurality of data symbols replacing means for replacing said first prefix by said second prefix, said second prefix respectively having a length longer than that of said first prefix to be replaced. The invention finds application in DMT XDSL systems.

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